

SIEMENS 6ED10521FB080BA0

SIEMENS LOGO! 230RCE Logic Module Instruction Manual

Model: 6ED10521FB080BA0

Brand: SIEMENS

1. PRODUCT OVERVIEW

The SIEMENS LOGO! 230RCE is a versatile logic module designed for small automation tasks. It offers high precision, ease of use, and a long service life, contributing to cost and time savings in various applications. This module is part of Siemens' commitment to ensuring the highest level of satisfaction and safety for its users.



Figure 1: Front view of the SIEMENS LOGO! 230RCE Logic Module. The module features a display screen, control buttons (ESC, OK, arrow keys), and connection terminals. Key labels visible include "AC/DC 115..240V INPUT 8xAC/DC", "OUTPUT 4xRELAY/10A", and "LAN".

2. SETUP AND INSTALLATION

Proper installation is crucial for the safe and efficient operation of the LOGO! 230RCE module. This device is designed for DIN rail mounting.

1. **Mounting:** Securely attach the LOGO! 230RCE module to a standard DIN rail in an appropriate enclosure, ensuring adequate ventilation.
2. **Power Supply Connection:** Connect the power supply to the designated terminals (AC/DC 115V/230V). Ensure the power source matches the module's voltage requirements.
3. **Input Wiring:** Connect your input devices (e.g., sensors, switches) to the 8 digital input terminals (DI).

4. **Output Wiring:** Connect your output devices (e.g., relays, contactors) to the 4 relay output terminals (DO). Observe the maximum current rating of 10A per relay.
5. **LAN Connection:** For network communication and programming, connect an Ethernet cable to the LAN port.
6. **Initial Power-Up:** After all connections are verified, apply power to the module. The display should illuminate, indicating successful power-up.

3. OPERATION

The LOGO! 230RCE can be operated and programmed directly via its integrated display and control buttons, or remotely via a connected PC or mobile device using the appropriate software.

- **Local Operation:** Use the arrow keys to navigate menus on the display. The 'OK' button confirms selections, and 'ESC' returns to the previous screen.
- **Programming:** Logic programs are typically created using Siemens SoftComfort software (version 8.2 or higher recommended). Programs are then transferred to the module via the LAN connection.
- **Monitoring:** The display provides real-time status and data from your programmed logic. Remote monitoring is also possible via network connection.

Your browser does not support the video tag.

Video 1: This video demonstrates the capabilities of the LOGO! 230RCE logic module, including its display interface, connectivity options, and how it can be integrated into automation tasks. It shows interaction with a mobile device for remote control and monitoring, such as receiving temperature warnings and sending commands to activate a fan.

4. MAINTENANCE

The SIEMENS LOGO! 230RCE is designed for minimal maintenance. Regular checks can help ensure its longevity and reliable performance.

- **Cleaning:** Keep the module clean and free from dust and debris. Use a soft, dry cloth for cleaning. Do not use abrasive cleaners or solvents.
- **Connection Integrity:** Periodically inspect all wiring connections to ensure they are secure and free from corrosion. Loose connections can lead to intermittent operation or failure.
- **Environmental Conditions:** Ensure the operating environment remains within the specified temperature and humidity ranges to prevent damage to the internal components.
- **Firmware Updates:** Check the official SIEMENS support website periodically for any available firmware updates for your module. Follow the provided instructions carefully for any update procedures.

5. TROUBLESHOOTING

If you encounter issues with your LOGO! 230RCE module, refer to the following common troubleshooting steps:

- **No Power/Display Off:**
 - Verify the power supply connections and ensure the voltage is within the specified range (115V/230V AC/DC).
 - Check the circuit breaker or fuse protecting the power supply line.
- **Module Not Responding:**
 - Ensure the module is in RUN mode (if applicable, check the display or software status).

- Perform a power cycle (turn off, wait 10 seconds, then turn on).
- Check for any error messages on the display or in the programming software.
- **Communication Issues (LAN):**
 - Verify the Ethernet cable connection.
 - Check network settings (IP address, subnet mask) on both the module and the connected device.
 - Ensure the programming software is correctly configured to communicate with the module.
- **Incorrect Output Behavior:**
 - Review your logic program for errors.
 - Check the wiring of the output devices.
 - Ensure the load connected to the output does not exceed the maximum current rating (10A per relay).

If these steps do not resolve the issue, please contact SIEMENS technical support.

6. SPECIFICATIONS

Feature	Value
Model Number	6ED10521FB080BA0
Brand	SIEMENS
Connector Type	Screw
Contact Material	Silver
Contact Type	Normally Open
Mounting Type	DIN Rail Mount
Operation Mode	Automatic
Coil Voltage	230 Volts
Maximum Switching Voltage	230 Volts
Minimum Switching Voltage	230 Volts
Product Dimensions	3.54 x 2.76 x 3.15 inches
Item Weight	7 ounces
Manufacturer	Siemens

7. WARRANTY AND SUPPORT

For detailed warranty information and technical support regarding your SIEMENS LOGO! 230RCE logic module, please refer to the official SIEMENS documentation provided with your purchase or visit the official SIEMENS website. You can also contact SIEMENS customer service directly for assistance with product inquiries, troubleshooting, and service requests.

Online Resources: For additional resources, software downloads, and FAQs, please visit the official SIEMENS Industry Automation support portal.

Technical datasheet for the Siemens LOGO! 230RCE logic module, detailing specifications for supply voltage, digital inputs/outputs, relay outputs, EMC, approvals, and ambient conditions.

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Technical datasheet for the Siemens LOGO! 230RCE logic module (6ED1052-1FB08-0BA0), detailing specifications, supply voltage, digital I/O, EMC, approvals, and dimensions.

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LOGO 230RCE, logic module, display PS/IO: 115V/230V/relay, 8 DI/4 DO, memory 400 blocks, modular expandable, Ethernet, integr. web server, data log, user-defined Web pages, standard microSD card for LOGO Soft Comfort V8 or higher, older projects executable



Figure 14.04a

Display	
with display	Yes
display type/technology	
Resolution	128 px, 64 px, 128 px, 192 px, 256 px, 320 px, 384 px, 448 px, 512 px, 576 px, 640 px, 704 px, 768 px, 832 px, 896 px, 960 px, 1024 px, 1088 px, 1152 px, 1216 px, 1280 px, 1344 px, 1408 px, 1472 px, 1536 px, 1600 px, 1664 px, 1728 px, 1792 px, 1856 px, 1920 px, 1984 px, 2048 px, 2112 px, 2176 px, 2240 px, 2304 px, 2368 px, 2432 px, 2496 px, 2560 px, 2624 px, 2688 px, 2752 px, 2816 px, 2880 px, 2944 px, 3008 px, 3072 px, 3136 px, 3200 px, 3264 px, 3328 px, 3392 px, 3456 px, 3520 px, 3584 px, 3648 px, 3712 px, 3776 px, 3840 px, 3904 px, 3968 px, 4032 px, 4096 px, 4160 px, 4224 px, 4288 px, 4352 px, 4416 px, 4480 px, 4544 px, 4608 px, 4672 px, 4736 px, 4800 px, 4864 px, 4928 px, 4992 px, 5056 px, 5120 px, 5184 px, 5248 px, 5312 px, 5376 px, 5440 px, 5504 px, 5568 px, 5632 px, 5696 px, 5760 px, 5824 px, 5888 px, 5952 px, 6016 px, 6080 px, 6144 px, 6208 px, 6272 px, 6336 px, 6400 px, 6464 px, 6528 px, 6592 px, 6656 px, 6720 px, 6784 px, 6848 px, 6912 px, 6976 px, 7040 px, 7104 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